

MONSTER BLAST AT HILLSIDE TEARS HILLSIDE

Work of Chemist Coughlan
Saves Much Money
For Government

Elephant Butte, N. M., Sept. 9.—The event of the week at Elephant Butte was the explosion of a dynamite charge, but probably 6000 yards away from the excavation for the tunnel. It was what is known as a coyote shot. A tunnel was driven back in the hillside for 40 feet and then two drifts, both about five feet in length, were run at either side. This was to provide additional space for the explosives. Two thousand pounds of dynamite were placed in these recesses. The tunnel was then refilled to its mouth with earth and rock. An electric battery exploded the charge shortly after 11:30. The shot was a success. There was a dull sound and great mass of rock arose a few feet in the air and fell away from the steep hillside.

The estimates of the amount loosened vary, but probably 600 yards were moved. Derrick No. 2 and 5 will have plenty of muck for a month. One of the busy men of camp is Ralph K. Coughlan, the chemist, who began work on the Rio Grande project in January of this year and for three months was employed in special investigations in connection with the treatment of water for boiler purposes; the advisability of using the coal from lands belonging to the reclamation service and several other propositions. The water furnished the camp is a valuable water of good quality, but of variable composition. A system of treating was designed and a plant cheaply constructed for treating the water which is used in the boilers for the five derricks and in the two locomotives on the work in this camp. The treatment is accomplished at a cost of \$2.25 per 100,000 gallons. Boilers using the treated water produce but little scale, and that is not and can be easily removed. An efficiency of 85 percent in the water treated insures the deposition of no scale. Once a year a complete analysis of the river water is made. Daily tests are made of the treated water and of the water from the river in order that the efficiency of the plant may be determined.

Mr. Coughlan finds that the composition of the river water varies from time to time, and as the well which supplies the camp is situated near the river and secures its supply from natural infiltration from the river the chemical composition of the water used in camp likewise varies. The water from the river here contains no alkali. The river water here is better than at El Paso.

Two cars of coal are received here weekly. These are thoroughly sampled and accurately tested for heating value. In the condition in which they are received. Another test is made to ascertain the heating value when the coal is rendered into dust. A high grade of Garretts coal is used in the locomotives at work on the flume and is sold to employees for domestic use. Later when the power plant is in operation and more coal is needed it will be purchased on the heat unit basis.

From an analysis of the coal and from the price paid per ton the cost for each 1,000,000 heat units per ton is determined. If an analysis of the delivered coal shows that the cost per 1,000,000 heat units is more than the cost of the coal as delivered, a penalty but if the cost is less the dealer secures a premium. This has resulted in a quality of coal being delivered. Nearly all departments of the government are now buying coal in this manner and it has been found most invariably that the dealer furnishes a good grade of coal and secures the premium offered.

The office equipped with a Parr Standard Calorimeter for making all fuel tests. Reclaiming Cement From El Paso. The reclamation service is now receiving about two carloads of cement per week from El Paso. Each car is carefully sampled and rigidly tested for fineness, setting time and tensile strength. The cement now being delivered is being used on the power house and for various small jobs.

Beginning about October 1 nearly one car per day will be required as the concreting of the flume will start then. Mr. Coughlan makes the tests on sands and gravels for use in the concrete for the flume and for the dam. These are tested for voids, silt fineness. Tests are also made using these in mortar at a ratio of three to one. The laboratory was designed by him and is very probably the most compact laboratory in New Mexico. The building is 20 feet square. The exterior walls are of adobe, plastered within and pebbles dashed without and they rest on a concrete foundation. The interior walls are of wood. There is a small office, a cement testing laboratory thoroughly equipped for the testing of cements, mortars and concrete, a chemical laboratory containing all apparatus and chemicals necessary for the complete analysis of water, of cement, and of all structural materials. This has a hood which withdraws all fumes from the room. One of the finest pieces of equipment is a high grade chemical balance. This is set on a concrete pier which rests on native rock under the building and is set free from any vibration of the floor. This balance is also located in a dust proof room.

A notice which shows the cost of the excavation accomplished on the flume for the week ending September 2 has been posted on the bulletin boards. All drilling of rock has been done by hand. All costs are given in cents. The cost per cubic yard for drilling was \$1.60. The cost for blasting this includes labor and powder was \$4.50 per cubic yard; the cost for hauling to the dumping grounds about a quarter of a mile away was \$1.00 per cubic yard; and the cost of dumping and keeping the dump in order was \$1.60 per cubic yard. The cost of loading the muck into cars was kept for each derrick and each shift. For derrick No. 2, day shift, \$2.25 per cubic yard, night shift, \$2.50; derrick No. 4, day shift, \$2.25, night shift, \$2.50; derrick No. 5, day shift, \$2.00 per cubic yard, night shift, \$2.50; derrick No. 6, day shift, \$2.50 per cubic yard and night shift, \$2.50. The average cost of loading into cars is therefore about \$2.10 per cubic yard. Taking all items together the cost of removing the materials was \$4.30 per cubic yard. This does not include any charges for plant or for services higher than those shown.

Stuart K. Baker has lately been employed by construction engineer Healy on the power house concrete inspector and instrument man. Miss Lenora Martin, of El Paso, is a visitor at the home of superintendent

Don't
SUFFER
FROM
HEADACHE,
FLATULENCE,
BLOATING,
INDIGESTION,
CONSTIPATION
OR
MALARIA
when the
Bitters
will do you
so much good.
Try it.

Headache,
Flatulence,
Bloating,
Indigestion,
Constipation
or
Malaria
when the
Bitters
will do you
so much good.
Try it.



Fall Fashions

Fashions change as regularly as the Seasons. With the advent of Autumn you find yourself looking at the new fashions and styles in suits and overcoats now being displayed.

Some men who have always worn "ready-mades" long to have their next suit "tailor made," but hesitate because of a fancied idea that the cost is greater.

Not so.

KAHN-TAILORED-CLOTHES

Made to your individual measurements, with every stitch needled with you in mind; with attention to all of the little details that are often neglected in ready made garments, cost no more than clothes-pulled-from-the-pile.

Let us show you our offerings before you place your order.

SUITS MADE TO YOUR MEASURE

\$25 to \$40

HARRY SWAIN
HATTER & SHIRTMAKER
109-111 TEXAS ST.,
EL PASO, TEXAS.

Schmalhausen, Janice Schmalhausen will accompany Miss Martin and re-enter school there.

The track for the upper coffer dam has been made ready and work is being done on dumping rock into the coffer. Similar work will begin next week on the lower coffer dam.

One of the steam turbines for the power house has arrived and some boilers are also here. A large number of men are working on the foundations. Mr. Chester Wells entertained the card club. Thirteen were present and refreshments were served. In the evening nearly all the people on the hill settlements were served. In the eventing time was enjoyed by all.

Durability Test on the Dalton Addict Machine. To satisfy themselves as to the durability and accuracy of the Dalton Addict Machine, the Dalton Company took one of their regular stock machines to pieces and carefully measured with the micrometer and other suitable instruments all the parts and carefully recorded all the measurements. The machine was then put together and subjected to the following test:

The operating lever was connected to a continuously rotating line shaft, which caused to make 150 complete strokes per minute. The machine was then filled to its capacity, so that all parts were brought into operation, and with the repeat key locked down, it was forced to run at this unheard of speed, night and day, for a period equal to nine hours each. Frequent changes in the combinations of figures were made in order to make it as near like office conditions as possible. At the completion of this test the machine was again taken to pieces and all the measurements were very carefully, but only one part showed enough wear to be detected by the finest micrometer. The worn part was a cam which has since been enlarged and case hardened.

Think of 150 strokes per minute is 10,800 per hour; \$7.20 for a nine-hour day, and \$6,515,000 for the 15 working days of the year. In the average office, a machine does not cost more \$200 operations per day, and according to these figures, a Dalton Addict machine will not show perceptible wear in 25 years.

The Dalton is sold in El Paso by the Typewriter & Office Supply Co., 411 Texas avenue, who will be glad to show it to anyone.

Young man, read this. Your wife will always be ready to help you save money. Why should you buy a lot in Cotton Addition?

The answer is because it is the lowest priced property in the city. See what the buyers in Franklin Heights Addition and all other close-in additions have done. The rapid growth of El Paso swallowed up these additions and the owners sold at enormous profits. You will have to start, to own real estate or you will never accumulate money.

News Brevities

Train Bulletin. The Texas and Pacific train from the east, due at 3:45 p. m., is reported five hours late and should arrive at 1:35 a. m. All other evening trains are reported on time.

Burn Tobacco With Ceremony. Asheville, N. C., Sept. 9.—With students, faculty and citizens praying and singing the last stock of tobacco and cigars in Marshall, N. C., was burned on the campus of Marshall college as the climax of an anti-cigarette crusade conducted by Rev. C. W. Reese, of Marion, Ill.

Dr. Prentiss, diseases of stomach and intestines. Roberts-Banner Bldg.

Dr. Auerbach, eye, ear, nose and throat, moved to 618 Mills building.

To have your baggage properly cared for and delivered same day arrives, call City Baggage Stand, phone 1 or 1001.

Famous Anatomist Dead. Nahant, Mass., Sept. 9.—Dr. Thomas Dwight, one of the foremost anatomists in America and successor of Dr. Oliver Wendell Holmes in the Parkman professorship of Harvard university, died yesterday. Mr. Dwight was born in Boston 68 years ago. He was the author of several volumes on anatomical subjects.

Dr. Cameron, dentist, 228 Mesa Ave. reliable dentistry; reasonable prices.

Mexican Herald on Sale. At Ward's Pharmacy, in El Paso. Complete and reliable news of what happens in Mexico.

To have your baggage properly cared for and delivered same day arrives, call City Baggage Stand, phone 1 or 1001.

Head of Peace League Sentenced. St. Petersburg, Russia, Sept. 9.—A military court at a private sitting yesterday tried and sentenced to eight years' penal servitude and a loss of his rights, Capt. Postnikoff of the general staff. The charge against him was selling secret documents to agents of three powers.

C. L. Billington, 709 Magoffin. Tel. 1489, painting, paperhanging, decorating.

Tularosa chickens at Watson's Grocery

To have your baggage properly cared for and delivered same day arrives, call City Baggage Stand, phone 1 or 1001.

Painting Not Recovered. Madrid, Spain, Sept. 9.—The report published that two men had been arrested at Leon with Leonardo Da Vinci's painting, "Mona Lisa," stolen from the Louvre, in their possession proved untrue.

Dr. Deady moved to 618 Mills Bldg.

Dr. A. T. Still Osteopathic Infirmary. Dr. Ira W. Collins, physician in chief; Dr. Amelia Burk, Dr. Grace Parker, Dr. Paul R. Collins, consulting physicians. 201 West Missouri street.

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EL PASO SCHOOL FOR GIRLS

A BOARDING AND DAY school of high standards in which a record of successful work already done is the best promise for the future. Its methods are up to date and progressive; it gives particular care to the physical well being of the girls; its atmosphere is homelike; its scholarship is thorough; it attends patiently to the individual needs of pupils; it gently insists upon courtesy and grace in all social intercourse; it offers an unusual number of hours of outdoor life in both regular school work and recreation; it lays much stress upon proper physical training, believing that health and happiness are the best foundation for effective work; it requires for the younger girls no study out of hours or without supervision; it offers a strong course in modern languages, for even the youngest children; it affords friendly or motherly care for all youthful needs; it has rational programs and courses of study; it offers practical preparation for useful and joyous womanhood; it has no fads, but many modern aids to rounded development of character, mind, and body.

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H. D. Slater, Secretary, Editor and President El Paso Herald.

Instructors

MISS ORA W. L. SLATER, A. B. Wellesley. Graduate work in Mathematics, Columbia University; in Education, University of Chicago. Three years instructor in Mathematics, High School, Montclair, N. J. Seven years instructor in Mathematics, Kent Place, Summit, N. J. One year residence and travel in Europe. —Mathematics and History of Art.
MISS OLGA E. TAFEL, University of Cincinnati. Six years instructor in German and Scholastic, Kent Place, Summit, N. J. Two years Head of German Department, University School of Cincinnati. Travel in Europe. —German and Science.
MISS ISABEL M. NORTON, Mount Holyoke. Instructor in English and History, Glen Cove, East Aurora, N. Y., and Shamokin, Pa. Two years Chair of History, Literature and German, Black Hills College, Hot Springs, South Dakota. Five years residence, travel and study in Mexico. Two years, The Dean School, El Paso. Literature and History.
MISS LILLIAN G. HUGGETT, A. B. University of New Mexico. A. B. Northwestern University. Three years instructor in Latin and German, Preparatory Department, University of New Mexico. One year reader in English, Northwestern University. One year, teaching in El Paso. —Latin and English.
MISS REBECCA ROBINS MACK, B. L. Smith College. Two years instructor in Mathematics and Geography, Langhorne, Pa. Two years instructor in Miss Roney's School, Philadelphia. —Mathematics; Intermediate Studies.
MISS VIRGINIA NICHOL, Belmont College, Nashville, Tennessee. Three years residence and teaching in Havana. —Spanish.
MISS BEATRICE MORSE, Diploma of Department of Hygiene and Physical Education, Wellesley College. —Physical Education and Hygiene; Dancing.
MRS. MARY S. RICHARDSON, House Mother.
MR. FRANCIS MOORE, Pupil of Sherwood, Chicago, and of Bauer, Paris. Instructor in Sherwood Piano School, Chicago. Instructor in Piano, El Paso. —Piano.
MR. A. F. SILVER, Pupil of Teichmüller, Conservatory of Leipzig. One year Preparatory Instructor for Teichmüller, Leipzig. Two years instructor in Piano and Harmony, Cotter College, Nevada, Mo. —Theory and History of Music; Piano.

Women's Board

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Mrs. U. S. Stewart
Mrs. J. F. Williams
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Mrs. W. A. Hawkins
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Mrs. Z. T. White

The members of the Board of Directors and of the Women's Advisory Board recommend the El Paso School for Girls without reserve to mothers, fathers, and guardians of young girls as a school of high grade specially planned to meet the needs of the people of the Southwest and of Mexico.

A yearbook and full information about the school will be sent on application to the principals.

MISS ORA W. L. SLATER,
MISS OLGA E. TAFEL,

1111-1115 Terrace Street,
Sunset Heights, El Paso.

Telephone 2929.

School Opens Thursday, September 14

BASE BALL SUNDAY

DOUBLE HEADER
Fort Bliss vs. Internationals
2:30 Sharp
White Sox vs. Globe Mills
Three Teams Can Tie For First Place.
Admission 25c and 35c
WASHINGTON PARK

DIRIGIBLE BALLOON CARRIES

SIX PASSENGERS LONG DISTANCE. Berlin, Germany, Sept. 9.—The Zephelin dirigible balloon Schwenken, with six passengers on board, arrived over Berlin at 11:15 o'clock this morning, thereby completing its 350 mile journey from Baden-Baden.

The big airship encircled the city and then proceeded to Potsdam, where it made a successful landing.

Two thousand five hundred lights for 30—cheaper than matches to light your gas range. Texas Electrical Supply Co., "House of Quality," 119 North Stanton.

See Wright for good cleaning. Better ice cream—Smith's.

OHIOAN SENTENCED FOR BRIBERY. Columbus, Ohio, Sept. 8.—Rodney J. Digby, former sergeant at arms of the Ohio senate, who was convicted of aiding and abetting alleged bribery, was today given a sentence of three years in the penitentiary. Digby's sentence was suspended until April 15 to allow the case to be carried to the circuit court. He was released.

Just figure what you spend for matches to light your gas range, when you can buy a lighter for 85c—2500 lights, no danger from fire. Texas Electrical Supply Co., "House of Quality," 119 North Stanton.

Delicious, wholesome, Smith's ice cream. Fresh buttermilk. El Paso Dairy.

The Question

of where to buy Hay, Grain and Feed is satisfactorily settled after you give us a trial. You will find that prices lower than ours mean also a corresponding lower quality.

Bruce Seeton
Successor to
O. G. SEETON & SON,
Third & Chihuahua Sts.

Men's New Fall Hats. We are now showing all the new fall styles in hats for men. Stetson, Bryan Bros' Special and Cravette.

Bryan Bros.

We will gladly show you the difference in cost of current consumption over other makes of electric irons. Remember, our irons are guaranteed for two years. We are the pioneer people in this business. Texas Electrical Supply Co., "House of Quality," 119 North Stanton.

Pure, unadulterated, Smith's ice cream.